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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/877,744	06/08/2001	On-Kwok Victor Li	9661-0019	5203
CHARLES E M	7590 05/29/200 IILLER	EXAMINER		
	HAPIRO MORIN & O COF THE AMERICA	COULTER, KENNETH R		
4TH FLOOR	OF THE AWIEKICA	ART UNIT	PAPER NUMBER	
NEW YORK, N	NY 10036-2714	2141		
		MAIL DATE	DELIVERY MODE	
		05/29/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No. Applicant(s)						
		09/877,744		LI ET AL.				
			Examiner		Art Unit			
			Kenneth R.	Coulter	2141			
Period fo	The MAILING DATE of this commur r Reply	nication appe	ears on the c	over sheet with the c	correspondence ad	ddress		
WHIC - Exten after: - If NO - Failur Any re	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE N sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this coming period for reply is specified above, the maximum sing et or reply within the set or extended period for reply apply received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b).	MAILING DA sof 37 CFR 1.136 munication. tatutory period will will, by statute, c	TE OF THIS (a). In no event Il apply and will ecause the applica	COMMUNICATION however, may a reply be tin xpire SIX (6) MONTHS from tion to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	•		
Status								
1) 又	Responsive to communication(s) file	ed on <i>28 Fel</i>	bruary 2008					
•	Responsive to communication(s) filed on <u>28 February 2008</u> . This action is FINAL . 2b)⊠ This action is non-final.							
—	Since this application is in condition	<i>,</i> —			secution as to the	e merits is		
-	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🛛	Claim(s) <u>1-21</u> is/are pending in the application.							
4	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
6)🖂	Claim(s) <u>1-21</u> is/are rejected.							
· ·	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restrict	ction and/or	election req	uirement.				
Applicati	on Papers							
9)[The specification is objected to by th	ne Examiner.						
10) 🔲 -	The drawing(s) filed on is/are	: a) <u> </u>	pted or b)⊑	objected to by the I	Examiner.			
·	Applicant may not request that any obje	ection to the dr	rawing(s) be	held in abeyance. See	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice Notice (3) Inform	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	_) Interview Summary Paper No(s)/Mail Da) Notice of Informal F) Other:	ate			

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DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1 – 21 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Independent claims 1 and 9 are directed to methods that are not implemented on hardware.

Independent claims 15 and 19 are directed to apparatus that can be implemented on a computing platform having software instructions. These claims are directed to apparatus that are not implemented on hardware.

Data structures not claimed as embodied in computer-readable media are descriptive material *per se* and are not statutory because they are not capable of causing functional change in the computer. See, e.g., *Warmerdam*, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure *per se* held nonstatutory). Such claimed data structures do not define any structural and functional interrelationships between the data structure and other claimed aspects of the invention which permit the data structure's functionality to be realized. In contrast, a claimed computer-readable medium encoded with a data structure defines structural and functional interrelationships between the data structure and the computer software and hardware components which permit the data structure's functionality to be realized, and is thus statutory.

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Hardware can be added to these independent claims in order to overcome the 35 USC 101 rejection.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 7 and 9 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Gopinath et al. (U.S. Pat. No. 5,925,097) (Directly Programmable Distribution Element).
- 2.1 Regarding claim 1, Gopinath discloses a method for assigning an address to a node in a network having an arbitrary topology (col. 14, lines 10 16 "arbitrary topology networks; col. 16, lines 9 15), the method comprising:

providing a first address to a first node such that the first address includes a description of a path to the first node (Fig. 21; col. 25, lines 1 - 11 "local VC number"; col. 34, lines 36 - 61; col. 37, lines 8 - 18); and

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establishing a mapping between plurality of output ports in the network and bits in the first address such that a packet, directed to the first address, at a second node in the network is forwarded via an output port on the second node in the network, in response to a specified bit in the first address having a specified value (Fig. 21; col. 25, lines 1 - 11; col. 34, lines 36 - 61; col. 37, lines 8 - 18).

- 2.2 Per claim 2, Gopinath teaches the method of claim 1 wherein the network is an optical network (col. 9 lines 9 12).
- 2.3 Regarding claim 3, Gopinath discloses the method of claim 1 wherein at least one node in the network has more than one address (col. 25, lines 1 11; col. 34, lines 36 61; col. 37, lines 8 18).
- 2.4 Per claim 4, Gopinath teaches the method of claim 1 wherein concurrent bits in the first address map to output ports on the second node (Fig. 14; col. 25, lines 1 11; col. 34, lines 36 61; col. 37, lines 8 18).
- 2.5 Regarding claim 5, Gopinath discloses the method of claim 4 wherein the map is a one-to-one correspondence (Figs. 14, 21; col. 25, lines 1 11; col. 34, lines 36 61; col. 37, lines 8 18).
- 2.6 Per claim 6, Gopinath teaches the method of claim 4 wherein each of the output

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ports on the second node maps to a bit in the concurrent bits in the first address (Figs. 14, 21; col. 25, lines 1 – 11; col. 34, lines 36 – 61; col. 37, lines 8 – 18).

- 2.7 Regarding claim 7, Gopinath discloses the method of claim 1 further including associating an output port in a node to an unused bit in a sub-field corresponding to the node in an address such that in response to a new address for directing a packet to a node in the network, the packet is forwarded via the output port (Figs. 14, 21; col. 25, lines 1 11; col. 34, lines 36 61; col. 37, lines 8 18).
- 2.8 Per claims 9 21, the rejection of claims 1 7 under 35 USC 102(b) (paragraphs 2.1 2.7 above) applies fully.

Response to Arguments

Applicant's arguments filed 2/28/08 have been fully considered but they are not persuasive.

Applicant argues that the feature "providing a first address to a first node such that the first address includes a description of a path to the first node" is not taught by Gopinath.

Examiner disagrees.

Gopinath specifically discloses that the "routing information is part of the VC state, which is accessed based on a local VC number of that port." (col. 25, lines 7 - 9). In

addition, Gopinath teaches that the "distribution element is thus **self-routing**, since it does not require any external controller for routine." (col. 25, lines 9 - 11).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth R. Coulter whose telephone number is 571 272-3879. The examiner can normally be reached on M - F, 7:30 am - 4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on 571 272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kenneth R Coulter/
Primary Examiner, Art Unit 2141

krc